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AMENDMENTS TO THE CLAIMS

1. (**Previously amended**) An immunogenic composition suitable for administration to a vertebrate host which comprises:

- (a) a polynucleotide immunogenic component comprising at least one polynucleotide encoding at least one antigen, such that introduction of said polynucleotide immunogenic component into said vertebrate host results in expression of a biologically effective amount of said antigen or antigens so as to induce a prophylactic or therapeutic immune response;
- (b) a protein antigen immunogenic component comprising at least one protein antigen selected from the group consisting of model protein antigens and immunogenic protein antigens; and
- (c) a mineral-based, negatively charged adjuvant, said composition produced by a method comprising preincubating or subsequently mixing said mineral-based negatively charged adjuvant with said at least one protein antigen immunogenic component prior to formulating with said polynucleotide immunogenic component.
- 2. (**Previously amended**) The immunogenic composition according to claim 1 wherein said mineral-based negatively charged adjuvant is an aluminum salt or a calcium salt.
- 3. (**Previously amended**) The immunogenic composition according to claim 2 wherein said aluminum or calcium salt is selected from the group consisting of aluminum phosphate, aluminum hydroxyphosphate, phosphate-treated aluminum hydroxide, calcium phosphate, calcium hydroxyphosphate, and phosphate-treated calcium hydroxide.
- 4. (**Previously amended**) The immunogenic composition according to claim 1 wherein said group of model protein antigens range from acidic isoelectric point (IEP) proteins to alkaline IEP proteins.
- 5. (Previously amended) The immunogenic composition according to claim 1 wherein said group of immunogenic protein antigens is selected from the group consisting of a surface protein or a core protein of Hepatitis B virus (HBV), a de-toxified toxin from the bacteria *Clostridium tetani* (a tetanus toxoid), a de-toxified toxin from the bacteria *Clostridium botulinus*

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(a botulinus toxoid), and a de-toxified toxin from the bacteria *Corynebacterium diphtheriae* (a diphtheria toxoid).

- 6. (**Previously amended**) The immunogenic composition according to claim 1 wherein said group of immunogenic protein antigens comprises protein antigens derived from inactivated poliovirus.
 - 7. (Canceled)
- 8. (**Previously amended**) A kit comprising an immunogenic composition as defined in claim 1 in a unit dose form for administration to a vertebrate recipient.
- 9. (Currently amended) A method of preincubating or subsequently mixing a mineral-based, negatively charged adjuvant as a component in making a the combined DNA/protein-based—immunogenic composition as defined in claim 1, comprising preincubating or subsequently mixing the mineral-based, negatively charged adjuvant with said at least one protein antigen immunogenic component; and adding prior to being formulated with said polynucleotide immunogenic component to the adjuvant protein mixture to form the combined immunogenic composition.
- 10. (**Previously amended**) An immunogenic composition suitable for administration to a human host which comprises:
 - (a) a polynucleotide immunogenic component comprising at least one polynucleotide encoding at least one antigen, such that introduction of said polynucleotide immunogenic component into said human host results in expression of a biologically effective amount of said antigen or antigens so as to induce a prophylactic or therapeutic immune response;
 - (b) a protein antigen immunogenic component comprising at least one protein antigen selected from the group consisting of model protein antigens and immunogenic protein antigens; and
 - (c) a mineral-based, negatively charged adjuvant, wherein said mineral-based negatively charged adjuvant is preincubated or subsequently mixed with said at least one protein antigen immunogenic component prior to formulating with said polynucleotide immunogenic component.

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11. (**Previously amended**) A kit comprising an immunogenic composition as defined in claim 1 in a unit dose form for administration to a human recipient.

12. (**Previously amended**) A method for preparing the immunogenic composition according to claim 1, wherein a mineral-based negatively charged adjuvant is preincubated or subsequently mixed with at least one protein antigen immunogenic component prior to formulating with a polynucleotide immunogenic component.